

Cracklin' Static

August 2017 Edition



Breakfast Meeting – August 5th

Boomtown Casino Hotel
Events Center
I-80 at Exit 4 in Verdi

Breakfast Buffet – 7:30am - \$12
General Meeting – 8:00am

Featured Presentation

AMSAT – Amateur Radio Satellites

SNARS NOON NET – Weekdays

12:00PM Daily on SNARS Linked
Systems
<http://snars.org/nets>

SNARS NET on DMR – Tuesday 8pm

DMR Talk Group: 31328 SNARS

SNARS Treasury – Ending July 31

Checking:	\$8,643.10
Savings:	\$5,244.95
PayPal:	\$2,093.68
Trust:	\$9,379.64
<u>TOTAL:</u>	<u>\$25,361.64</u>

SNARS Membership – Ending July 30

Technician:	116
General:	95
Advanced:	17
Extra:	111
 SNARS Members	 342
 ARRL Members	 221

President's Voice

Summer Activities



Your President Anthony Marcin, W7XM

Email: w7xm@snars.org | Telegram: @w7xm_nv

I hope everyone has enjoyed their summer this year. This summer seems to have flown by as they do each year.

Ham Radio in the Park

I am working on a new activity and would like your input and possibly support. For a while now I have been considering starting up something called "Ham Radio in the Park". This would take place on a Saturday Morning from 8am to 12pm where we would setup HF equipment and operate. This would allow for those who are new or interested in HF radio to have a chance to operate, ask questions about the equipment or HF radio and provide a general idea what it takes to setup a simple station. The first outing would include possibly two stations. One typical of a simple home stations and the second a portable station. If you are interested in helping please contact me. I will send out an email to the membership once I have the final pieces in place and will announce the first location.

50th Anniversary

We are working on some new Polos, Hats and other items with our 50th Anniversary logo. I would like to hear from you, the membership, what other items you would like for us to produce. These items will be limited run and will need to know the numbers to order. In the next couple of months please keep an eye out for this type of requests via the membership email list and at the September/October meetings. Our logo is located at the top of this newsletter and will start showing up in other areas for this next year. We are also exploring some type of celebration next year and look for your input as well in what you would like to see. FYI, if you can join us at our meeting this month we will have some of the first times with the 50th anniversary logo which will be a window sticker. We are asking for those interested in contributing \$1.00 for each sticker to help offset the costs.



PO BOX 7727 • Reno, NV • 89510
775.453.4142 • <http://snars.org>

Yearly Dues: \$40.00 Individual • \$50.00 Family

2017 Officers

President Anthony Marcin, W7XM
Vice-President Jim Shepherd, W6US
Treasurer Bill Jones, AE7OX
Secretary Rob Dunbar, NB6C
Director Wes Vick, KG7QXE
Director John Byerly, N7ROJ
Director Barry Bettman, K6ST

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Cracklin Static..... Howie Holden, WB2AWQ
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KR7ENO Trustee..... Howie Holden, WB2AWQ
Control Operator Pat Sheehan, W7DED
Historian..... Jon Fox, KF7KTC
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DMR Net Manager..... Anthony Marcin, W7XM
Reno Ham Swap..... Rob Dunbar, NB6C
Webmaster Anthony Marcin, W7XM

Cracklin Static Publication

Editor: Howie Holden - holden7471@msn.com

Cracklin' Static is the Newsletter of, and sponsored by the Sierra Nevada Amateur Radio Society. Opinions expressed herein are those of the editors and contributors and should not be considered as official expressions of the Club Officers, Staff or Club Members, or as endorsements by same.

Material for publication may be edited to enhance readability or to save space. We reserve the right to use whatever font size or line spacing may be required to publish this Newsletter. **Deadline for input to the newsletter is 1500 hours on the Sunday** prior to the 1st Saturday of each month.

SNARS Wide Area Linked System

147.030 + PL 123.0	Sparks, Fernley, Fallon	Online
147.210 + PL 100.0	Reno, Sparks	Online
147.150 + PL 123.0	Lake Tahoe, Truckee, Carson	Online
146.925 - PL 123.0	Lovelock, Fallon	Online
146.670 - PL 123.0	Winnemucca	Online
444.875 + PL 100.0	Yerington	Online
444.125 + PL 123.0	Reno Sparks	Offline

DMR Systems

444.925 + CC 1	Reno, Sparks	Online
444.825 + CC 1	Dayton, Fallon, Carson	Online
443.925 + CC 1	Lake Tahoe, Truckee, Carson	Offline
443.950 + CC 1	Incline Village	Online
442.875 + CC 1	Sparks, Fernley, Fallon	Online
442.850 + CC 1	Downtown Reno	Online
441.950 + CC 1	Fallon, Fernley	Offline

*Visit <http://snars.org/dmr> for Talk Group Information

Fusion Systems

146.610 -	Reno, Carson, Dayton	Online
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IRLP/Echolink Systems

147.300 + PL 123.0	Reno, Sparks	Online
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Digital/APRS

145.050 - RNO	Reno, Carson, Dayton	Online
145.050 - ROSE	Lake Tahoe, Truckee, Carson	Online
144.390 - TOULON	Lovelock, Fallon	Online

Standalone Systems

147.390 + PL 100.0	Reno, Carson, Dayton	Online
443.075 + PL 123.0	Reno, Carson, Dayton	Online
927.0875 + PL 114.8	Reno, Carson, Dayton	Online

Online Offline No Linked

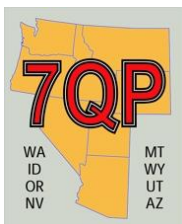
Thank you to our Sponsors/Supporters



Thank you for hosting us for our monthly breakfast meeting



Thanks to Ham&HiFi for the door prizes they provide.

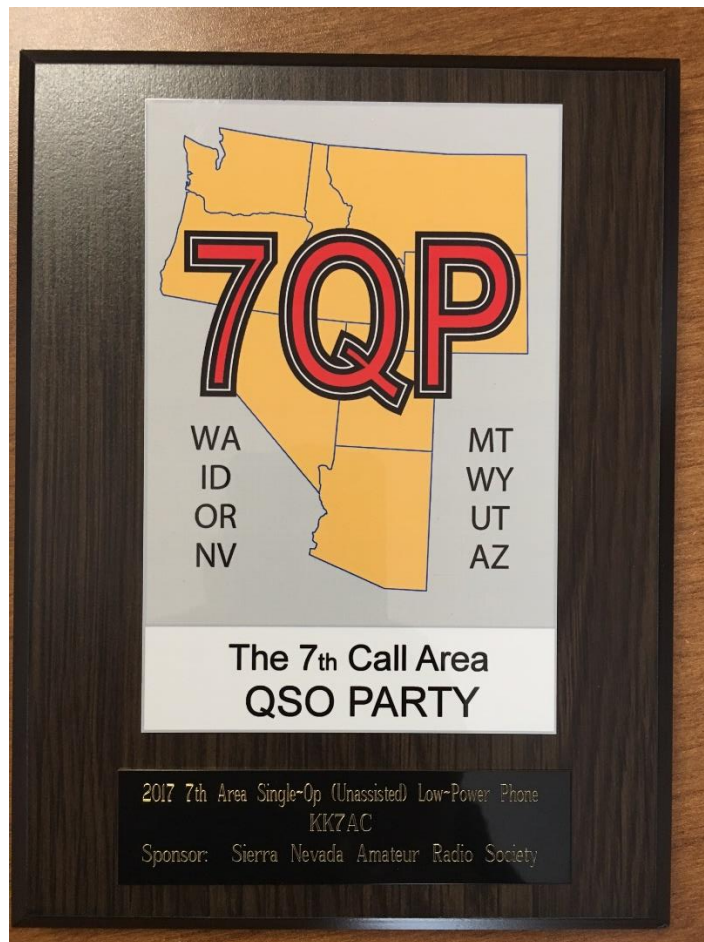


7QP – The 7th Call Area QSO Party

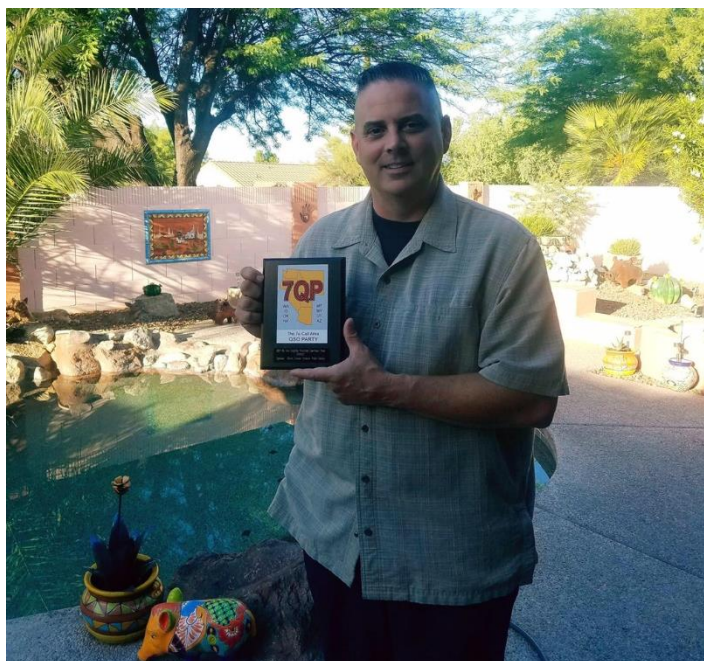
Award Winners

SNARS has sponsored for the last few years the 7QP contest by providing funding towards the plaque the top winners receive in their categories. This year we sponsored two the plaques. The 7th Area Single-Op High-Power Phone and 7th Area Single-Op Low Power Phone. The plaques are \$40.00 each which includes the plaque, shipping and another other fee incurred in creating and packaging.

This year one of the winners sent us a thank you note indicating he won the 7th Area Single-Op Low-Power Phone plaque. Andy Smith, KK7AC with a score of 129,320 with 1050 QSOs was the winner but also out-passed everyone in this category by more than double.



7QP Plaque with the SNARS Sponsorship info on the engraved portion of the award.



Andy Smith, KK7AC – Winner of the 7th Area Single-Op Low-Power Phone.

The other category 7th Area Single-Op High Phone went to Ronnie Burnett, KK7YC the other plaque we sponsored.

We are proud to sponsor this great event each year and thank you to Andy for sharing his photo to the members. For information about this contest visit <http://7qp.org> website for the list of all award winners along with contest rules and the next scheduled QSO Party. The QSO Party is generally held the first weekend in May each year.

Welcome New Members for July

Please welcome our newest members and please welcome them when you hear them on the local repeaters and or events. Welcome all to SNARS!

Kevin	Moore	W7NHP
Leslie	Simerl	KI7OMV
Daniel	Iwamoto	KM6EXT
Michael	Marty	W6MFM
Robert	Riordan	KM6LHX

SNARS Volunteer Opportunities

We are continually looking for members to volunteer for positions and events we sponsor or produce. If you would like to volunteer for any of these open positions please email Tony, W7XM at w7xm@snars.org

Reno Ham Swap Volunteers – Saturday, Sept 23rd Need of help in directing and collecting fee for the ham swap spaces along with setting up the SNARS Tent and table.

SNARS Public Information Officer

The position will help to promote SNARS with the media and other requests as needed. The position will support the club by releasing press releases, help provide information for the monthly newsletter, attend public events and promote SNARS.

Ham Radio in the Park

We are starting up a new activity for SNARS members and the community by meeting one or two Saturdays each month to setup an HF station and to provide support to those looking at setting up their own, operating on HF or just to come and operate the equipment. We can rotate each of the meetings amongst many if we have a handful of volunteers.

Webmaster/Social Media

This position will help to maintain the SNARS website by posting content. Will also support by posting posts on social media channels.

Join us on Telegram

We have recently began using a new chat application called Telegram. The communication tool allows for quick communications amongst everyone and have used it for our coordination and for the most part replacing out meetings for the technical team.



Telegram

a new era of messaging

There is a SNARS Members group as well where we have currently 37 in our chat room chatting about things such as new radios coming out, showing off some new club logo items, check-ins for the DMR Net and many other topics.

The application can be used on phones, desktops (windows, linux, macs) and via the web. You can share images, links and videos and allows for group or one to one communications in a text message like environment. Recently Telegram launched a way to make phone calls.

If you would like to join us in the SNARS Membership channel go to the following link and will provide instructions on how to install the client (phone or desktop) and then will invite you to the channel/chat room.

Link to join SNARS Member Channel and download the client to your phone or desktop.

https://t.me/joinchat/C3GS2z-kSWLZci7_D2-Zrw

THE NAME OF THE GAME

Jim Shepherd, W6US nvjims@gmail.com

BETWEEN THE FINALS AND THE ANTENNA...

Sometimes not a lot of thought goes into what happens between the output power of your radio and the antenna. You just hook it together and get it on the air.

Virtually all ham radios are designed to be hooked to a 50 ohm impedance load. Not everything out there has a true 50 ohm impedance at the desired frequency. This creates problems as it causes power to be reflected back to the transmitter. Most modern radios can handle a 2:1 mismatch or less and they have circuits to reduce power if a larger mismatch is sensed.

The best thing to do is to adjust the antenna so it does show 50 ohms and resonance at the desired frequency. With wire antennas, shortening or lengthening may be needed or positioning it away from other objects or the ground. This is fine for the single frequency, but the further you move from that frequency, the more out of tune it will go.

To get more bandwidth or to work on multiple bands, an Antenna Tuner is inserted into the system. It really does not tune the antenna, but it matches its output to the antenna impedance and its input to the 50 ohm impedance of the radio. If it is mounted at the antenna and 50 ohm coax is connected back to the radio, you will maximize the performance of the system. But the tuner is usually in the shack either connected to the radio or built into the radio... That means that the impedance coming out of the tuner is no longer the nice 50 ohms that your normal coax likes.

This isn't a problem if your coax is electrically $\frac{1}{2}$ wavelength long or multiples thereof at the desired frequency, but that is not the normal situation. You now will start losing power from the impedance difference, and, of course, with the mismatch with the antenna. This loss will show up as heat in the tuner and coax, and lower signals at the distant station.

So now you change to a balanced feed system like Ladder Line, Window Line or Twin Lead. Window line has an impedance of 450 ohms which can be easily matched with a 9:1 balun to a 50 ohm source. At the antenna end,

another rf transformer can convert the 450 ohm to the impedance of the antenna or, in the case of dipoles, directly to the legs of the dipole as is done in the popular G5RV antenna. In this case, the legs of the dipole, and some of the length of the Window Line tend to be resonant at a lot of different frequencies. Also, the window line tends to present less loss at the HF frequencies.

Like the window line on the G5RV, some antenna designs may try to use the shield on the coax as part of the antenna, and this has the potential to bring some RF back into the shack which will appear on the outside of all the coax connected parts of your radio system and many of the internal parts... This causes all sorts of problems including the potential for rf burns. A choke is used at the antenna to prevent these common mode currents from coming down and biting you. This may be as simple as a number of turns of coax in a small loop or the addition of some ferrite beads to the outside of the coax. Good grounding helps, however the length of your ground wires is important as they can end up being resonant and actually make things worse. All sorts of 'interesting' things can happen if your ground line is some multiple of $\frac{1}{4}$ wavelength especially if you are using a single wire or vertical.

There are other things that may be in the circuit. During Field Day we used a couple of filters to minimize interference between the stations. These filters are designed to be 50 ohms in and out, and they really need to be put between the transmitter and an outboard tuner if they are used with an antenna system that is not 50 ohms. If they are used after the tuner, they will present a high swr load on the system and could be damaged or cause damage if your radio does not have SWR protection. Power meters can also be a problem if they are used after the tuner for the same reason. The built in power meters on some tuners are on the input circuit side so they are always near 50 ohms.

Finally, there is attenuation to both transmit and receive by using too long of the wrong feedline. A hundred feet of RG-58 on your UHF DMR radio will decrease signals by about 12 dB – your 5 watt radio is now effectively a 0.3 watt radio and the receiver performance has a similar

reduction. If you used a hundred feet of ½” hardline, that would only drop you about 1.3 dB which would make it 3.7 watts. On the 160 meter band, attenuation for either coax would be very low and only the power handling ability would be the deciding factor. Also, the RG58 weighs a whole lot less than the ½” hardline which will allow it to be connected to an end supported center fed wire antenna with less tension and droop than the heavy

stuff. Pay attention to the connectors, poorly installed or multiple interseries connectors will also cause a loss of signal.

‘Tuning up’ your connections from your radio to your antenna can improve your signal. Take a look at your system and see where you can make improvements.

MIKE’S MISSIVES CHAPTER TWENTY EIGHT

PART 97 -- 97.205 REPEATERS

One of the most common repeater problems involves repeater users who transmit communications that violate the rules – obscene material or music, for example.

While the rules state that the control operator is not accountable when such actions occur (97.205(g), it is still their responsibility to ensure that the repeater is being operated under the rules. In such cases the control operator should shut down the repeater until the problem is resolved. If necessary to insure proper operation of the repeater, it is permissible for the repeater owner to limit its use to only certain stations (97.205(e). A repeater is not a “public utility.” No licensee has the automatic right to use a specific repeater. Repeater owners may always make rules for use of their equipment that are more stringent than those imposed by Part 97. Failure to abide by those additional rules can lead to the revocation of your privilege to use that specific repeater.

THE SNARS NOON NET

The Noon Net is on 147.030 + and 147.150+, PL 123.0, and 147.210 + and 444.875+, PL 100.0 . The net is held Monday through Friday at 1200. This is a Q&A and information net for newly licensed hams and all hams wishing to ask question about different aspects of Ham Radio. It will give new hams in particular a venue for getting on the air in a controlled net moderated by a ham with experience. The net is open to all hams. Questions will be answered and discussed by the more experienced hams on the Net.

Weekly nets on the SNARS repeater systems

SNARS Noon net (daily, 12:00 PM)

147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

The Morning Net (Monday – Friday at 10:00 AM)

147.300 + 123.0

Bishops Storehouse Net (Monday nights at 9:15 PM)

147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

North Western Nevada ARES Net (Tuesday nights at 7:00 PM)

147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

State SATERN Net (Tuesday nights at 8:00 PM)

147.300 + 123.0

State SKYWARN Net (Wednesday nights at 7:00 PM)

147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

Northern Nevada Preppers Group Net (Wednesday nights at 8:00 PM)

147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

State ARES Net (Thursday nights at 7:00 PM)

147.300 + 12

* * * * *

NAME THAT RIG



(Answer on page 8)

SNARS CALENDAR

SNARS monthly meeting (breakfast!)

Saturday, August 5th, 8:00 AM

Boomtown Casino Hotel, I-80 exit 4, Verdi NV

Board of Director's Meeting - SNARS

Wednesday, August 16th, 2017 6:00 PM - 7:00 PM

**Washoe County Regional Emergency Operations Center,
5195 Spectrum Blvd Reno, Nevada 89512**

One Day Ham Review and Exam

Saturday, August 19th, 2017 8:00 AM SHARP!

**Washoe County Regional Emergency Operations Center,
5195 Spectrum Blvd Reno, Nevada 89512**

CLUB CONTEST PARTICIPATION

There have been some changes in the rules by the ARRL for Club entries to various ham radio contests sponsored by the ARRL. Now, there has to be a 'preregistration' of club members in order for our scores to count and be listed in QST. Before each contest a list of eligible members that may participate needs to be compiled and sent to the ARRL. Due to the location of our members we would be best suited as a "medium" club which allows for operation in a 175 mile radius of the Reno area which is similar to our repeater footprint. To determine eligibility, each participating member would have to submit their 6 digit grid location for their operation during the contest. For instance, if I operate from my home address, I am in DM09mn, from my Winnemucca location, DN10cu, or from Fox Mountain for VHF, DN01fa, all of which are in the circle. To find your location, you can use Google Earth to get the lat/lon and then go to <http://www.amsat.org/amsat-new/tools/grids.php> to get your grid. If you are interested, please see me after the

club meeting this Saturday or contact me at nvjims@gmail.com.

FUN STUFF FOR AUGUST

Looking for some excitement on the bands during August? There's something for everyone on the air!

5 Aug 0001 to 6 Aug 2359 10-10 International Summer Contest CW Ph www.ten-ten.org

5 Aug 1800 to 6 Aug 0559 North American QSO Party, CW www.ncjweb.com/NAQP-Rules.pdf

5 Aug 1800 to 6 Aug 1800 ARRL 222 MHz and Up Distance Contest CW Ph Dig www.arrl.org/222-mhz-and-up-distance-contest

19 Aug 0600 to 20 Aug 2359 ARRL 10 GHz and Up Contest CW Ph Dig www.arrl.org/10-ghz-up

9 Aug 1800 to 20 Aug 0559 North American QSO Party, SSB Ph www.ncjweb.com/NAQP-Rules.pdf

20 Aug 1800 to 20 Aug 2359 ARRL Rookie Roundup, RTTY Dig www.arrl.org/rookie-roundup

21 Aug 1400 to 21 Aug 2200 Solar Eclipse QSO Party CW Ph Dig www.hamsci.org/seqp

The contests in **bold** may qualify for the ARRL club contest competition mentioned previously in Jim Shepherd's (W6US) article.

For a full list of contests, see:

<http://www.arrl.org/files/file/Contest%20Corral/2017/August%202017%20Corral.pdf>

If you're not into contests, there's always DX to chase, and July has some good ones! Some of the better DX operations coming up in August:

Aug01 to Aug10 **Faroe Is OY**

Aug01 to Aug31 **Galapagos HC8**

Aug05 to Aug11 **Jersey GJ4PVM**

Aug08 to Aug08 **Ascension I ZD8RA**

Aug12 to Aug19 **Market Reef OJ0**

Aug18 to Aug18 **Wake I KH9**

Aug18 to Aug21 **Lesotho 7P8**

Aug25 to Aug29 **Albania ZA**

Aug28 to Sep04 **Micronesia V63KS**

Aug29 to Sep03 **Montenegro 4O7GXB**

Aug29 to Sep14 **Vanuatu YJ0AT**

Visit <http://www.ng3k.com/Misc/adxo.html> for current info and full lists!

SNARS VOLUNTEER OPPORTUNITIES

- Reno Ham Swap Sep 23, 2017 – Contact Rob Dunbar, NB6C - nb6c@snars.org

NEVADA HAMS TO THE RESCUE

More has not been said about Amateur Radio than has been said. Let no one say that Amateur Radio doesn't provide vital service when all else fails.

Tuesday morning, July 25, 2017 PDT -J. Parker, N7TOC, Spanish Springs, NV-Val Thompsons, KC7YCX, Sun Valley, NV- and John Schaap, KA6ELH, Litchfield, CA were chatting on the 147.180 Repeater, Washoe County NV repeater when Dale Palm W7DPN, Silver Springs, NV asked that someone make a telephone Call for him.

Dale related that he was somewhere between Virginia City and Patrick (both towns in Nevada) and was stuck in mud. Dale had no other means of communication than Amateur Radio. Dale asked that someone call his boss, Tallon Cargill and advise Mr. Cargill that Dale needed Help.

J. Parker being the only of the group close to a telephone made the telephone call to Mr. Cargill. After several messages between Dale and Mr. Cargill with J. Relaying information between them Dale and Mr. Cargill

determined where Dale was located and Mr. Cargill set out on the rescue mission.

Approximately an hour and a half later Dale informed J that he(Dale) was free and on his way. J. responded to Dale "pleased to be of service."

Later J. was heard to say "let no one say anything bad about Amateur Radio. This was Amateur Radio at its very best. Be careful! You may be the next person that a Ham assists."

J. Parker, N7TOC

NAME THAT RIG (from pg 7)

In 1954, The Hallicrafters Company, probably the best known Amateur and SWL receiver manufacturer in its day, released the **SX-88 receiver**, offering more performance, features, and conveniences than any receiver before it. For some reason, however, even though priced about midway (\$595) in the upper crust of receivers in its day, the SX-88 didn't sell well, and only about 100 are known to exist today. The specifications of the SX-88 are far too detailed to list here, but this link will give you some idea of the advanced features it had: <http://www.w1vd.com/SX-88.pdf>
It's considered one of the top Hallicrafters collectibles, and fetches anywhere from \$2500 to over \$5000 today.

SNARS CLOTHING/ACCESSORIES ORDERED BUT NOT PICKED UP

	T-Shirt, SS No Pocket	T-Shirt, LS No Pocket	Polo, SS No Pocket	Polo, SS w/ Pocket	Hoodie, Zipper	Ball Cap
Matthew Ham, W2IB				1		
Erik Andreasen, K6CZH				1		
Tom Bakewell, KE7AVZ	1			1		1
Dale Tyson, KG7ROP	1		1			1
Tomothy Rowe, K7TGR	2	2	1	1		2

Contact Bill AE7OX at the Monday morning breakfast meetings at The Bonanza and at the next SNARS meeting. (August 5th)

ARES NEWS

- MANY THANKS to WA6MTY, KA7F00, K7VWB, N7JDM, KI6SPK, K7HMR, KE7CKY, KC7STV, WB6JAD, AF7RM, KC7ZJN, NZ7G, N7JKM, KS6A, KA7ZAU for helping with the Tahoe Rim Trail July 15th and 16th. The run started at 0500 on the 15th and ended at 1600 on the 16th.

Many thanks to AF7RM for helping to periodically reboot the TRT repeater on Snow Valley Peak.

If you like to camp out and operate portable even if you only have an HT you can join us next year.

- **There is a one-day Technician review and test August 19th, 2017 at 0800 PDT sharp! Visit <http://snars.org/classes> for more information on the One Day Ham Review / Ham Cram**

RENO AIR RACES 9/11/2017 to 9/17/2017 HELP STILL NEEDED!!!

We have been asked again to help with security as follows during the Air Races, starting (from 0745-1700). If you would like to earn a free pass to the entire Air Race (a \$450 value), you must commit to work a minimum of 15 hours. You can break it up into 5 hour chunks or 10 hour chunks if you like.

1. General Admission Gates
2. Pit Gates
3. Ramp Access from the pits
4. Reserved Seating Grand Stands (Wed-Sun)

This year entertainment will include the Texas Flying Legends Museum racing four planes and performing with six planes (B-25J, TBM3E Avenger, P-40K, FG-1D Corsair, P-51 Mustang and MkiXe Spitfire); the USAF A-10 Thunderbolt II Heritage Team and the A-10 Heritage Flight Team; the USMC AV-8B Harrier flight demonstration; and much, much more (check the RARA website (<http://airrace.org/> for details). Come on out and help and have a lot of fun. Also bring along families and friends (16 years old minimum) to help out and they can receive a pass as well.

CONTACT: Rick Russell, KF7KEM, Washoe County Amateur Radio Emergency Service, Assistant Emergency Coordinator at dc-russell@charter.net.

SUMMER EVENTS CALENDAR 2017: Carson Valley, Tahoe, Reno, Plumas County

EVENT 2017	DATE	DATE END	SPONSOR/ORGANIZER	COORDINATOR	CONTACT
Round Valley Walk/Run	8/5/17		Plumas ARC	Larry Trotter KI6YUK	dltrotter@sbcglobal.net
Running With the Bears	8/19/17		Plumas ARC	Larry Trotter KI6YUK	dltrotter@sbcglobal.net
Reno 5000-3	8/27/17		Dolan Auto Group	Bob Miller WA6MTY	wa6mty@gbis.com
Vegas to Reno Off Road Race	8/4/17	8/15/17	Best in the Desert Racing Assn	Keith KC7HTK	kc7htkeith@hotmail.com
Tour De Tahoe	9/10/17		Tahoe Amateur Radio Assn	Paul McCaffee KI6OCB	paul.mcafee6243@gmail.com
Reno Air-Races	9/13/17	9/17/17	WC-ARES	Rick Russell KF7KEM	wa6mty@gbis.com
Edible Pedal 100		9/17/17	Sunrise Rotary Club	Bob Miller WA6MTY	wa6mty@gbis.com
Grinduro SBTS	10/7/17	10/8/17	Plumas ARC	Larry Trotter KI6YUK	dltrotter@sbcglobal.net
Nevada Day Parade	10/28/17		NV AREA NW DEC	John Abrott KD7NHC	jabrott77@gmail.com , cell 775 790-1739.
Indian Valley Leaf Peepers	TBD		Plumas ARC	Larry Trotter KI6YUK	dltrotter@sbcglobal.net

NOTE: Plumas ARC always have a need for operators. Go over to some beautiful country and help out the Plumas Amateur Radio Club

Bob Miller WA6MTY
Amateur Radio Emergency Service Emergency Coordinator
775 843-5952 www.wcares.us

EDITOR'S NOTE: The SNARS Board meeting for July was cancelled, no minutes available.